

ecology and environment, inc.

US EPA RECORDS CENTER REGION 5

12251 UNIVERSAL, TAYLOR, MICHIGAN 48180, TEL. (313) 946-0900 International Specialists in the Environment

MEMORANDUM

TO:

Ralph Dollhopf, On-Scene Coordinator, U. S.

Environmental Protection Agency

FROM:

Herbert B. Langer, Technical Assistance Team

Member, Ecology and Environment

DATE:

April 25, 1994

SUBJECT: Cyb Tool Site Assessment Report Comments

On October 4, 1993, Ecology and Environment completed a site assessment report regarding the Cyb Tool Site that was delivered to OSC Ralph Dollhopf. On April 18, 1994, OSC Dollhopf requested this memo to clarify questions he had regarding the report.

The site activity map, Figure 2, shows site features and where excavations occurred. The term "excavation" was used to describe intrusive work where one hole was dug directly and vertically through the fill materials to the virgin soil. This type of excavation was performed when looking for specific items, like the lagoon and buried containers. The term "trench" was used in the report to describe excavations dug from a starting point laterally to an end point in order to expose large cross sections of the fill.

In appendix A of the report are the data reports generated by the laboratory from the samples collected at the site. Matrices are not usually reported to the laboratory by the collectors to avoid biasing the laboratory to look for specific items based on the type of matrix (e.g., waste, oil, soil, etc). The physical state of the samples collected from the site that were analyzed for PCBs was described by the laboratory as water. After questioning the laboratory regarding this, the laboratory reported that "water" was a typographical error. During the review, the reviewer had examined the units for correctness but did not notice the matrix description error. In all cases, other than the analyses for PCBs, the laboratory correctly reported the sample matrices as "soil". Field reporting and photographs completed at the time of sample collection, describe samples collected from the containers as wastes that had homogenized with the surrounding soils through the years.

If there are any other questions regarding the report please feel free to contact us.

22345 Roethel Drive P.O. Box 8022 Novi, MI 48375 (810) 344-1770 Fax (810) 344-2654



April 22, 1994

Mr. Herb Langer ECOLOGY & ENVIRONMENT, INC. 12251 Universal Taylor, MI 48180

Clayton Project No. 90406-17 **REVISED REPORT**

Dear Mr. Langer:

The following is our revised report for the samples received on August 6, 1993. The sample matrix for the PCB samples has been corrected. The results and analytical methods used are presented in the attached tables.

We appreciate the opportunity to be of assistance to you. If you have any questions, please call me or our Client Services Department at (810) 344-2650.

Sincerely,

Robert Lieckfield, Jr., CIH

Director, Midwestern Analytical Services

Debrah Panger for

RL/km Attachments



for

ECOLOGY & ENVIRONMENT

Clayton Project No. 90406-17

Sample Matrix: Soil Lab Number: 161077

Sample Identification: CT-1, WEST LAGOON Analytical Method: EPA 8080 (modified)

Moisture (%): 70

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Compound Name	Concentration (μg/kg) *	Limit of Detection (µg/kg)
PCB Aroclor-1016	<200	200
PCB Aroclor-1221	<400	400
PCB Aroclor-1232	<200	200
PCB Aroclor-1242	<200	200
PCB Aroclor-1248	1,500	200
PCB Aroclor-1254	200	200
PCB Aroclor-1260	<200	200

^{*} Results are reported on a dry-weight basis.

Limit of detection may vary due to matrix effects and presence of Aroclor-1248 and Aroclor-1254.

Date extracted: 08-10-93 Date analyzed: 08-20-93



for

ECOLOGY & ENVIRONMENT

Clayton Project No. 90406-17

Sample Matrix: Soil Lab Number: 161078

Sample Identification: CT-2, CENTER HILSIDE Analytical Method: EPA 8080 (modified) Moisture (%): 9

Compound Name	Concentration (µg/kg) *	Limit of Detection (µg/kg)
PCB Aroclor-1016	<40	40
PCB Aroclor-1221	<70	70
PCB Aroclor-1232	<40	40
PCB Aroclor-1242	<40	40
PCB Aroclor-1248	<40	40
PCB Aroclor-1254	60	40
PCB Aroclor-1260	, 7 0	40

^{*} Results are reported on a dry-weight basis.

Date extracted: 08-10-93 Date analyzed: 08-18-93



for

ECOLOGY & ENVIRONMENT

Clayton Project No. 90406-17

Sample Matrix: Soil Lab Number: 161079

Sample Identification: CT-3, EAST HILLSIDE Analytical Method: EPA 8080 (modified)

Moisture (%): 8

Compound Name	Concentration (µg/kg) *	Limit of Detection (µg/kg)
PCB Aroclor-1016	<70	70
PCB Aroclor-1221	<100	100
PCB Aroclor-1232	<70	7 0
PCB Aroclor-1242	· <70	70
PCB Aroclor-1248	<70	70
PCB Aroclor-1254	300	7 0
PCB Aroclor-1260	70	7 0

^{*} Results are reported on a dry-weight basis.

Date extracted: 08-10-93 Date analyzed: 08-20-93

for

ECOLOGY & ENVIRONMENT

Clayton Project No. 90406-17

Sample Matrix: Soil Lab Number: 161080

Sample Identification: CT-4, SECOND CONTAINER

Analytical Method: EPA 8080 (modified)

Moisture (%): 27

Compound Name	Concentration (µg/kg) *	Limit of Detection (µg/kg)
PCB Aroclor-1016	<200	200
PCB Aroclor-1221	<400	400
PCB Aroclor-1232	<200	200
PCB Aroclor-1242	<200	200
PCB Aroclor-1248	500	200
PCB Aroclor-1254	800	200
PCB Aroclor-1260	200	200

^{*} Results are reported on a dry-weight basis.

Limit of detection varies due to presence of Aroclor-1248 and Aroclor-1254.

Date extracted: 08-10-93 Date analyzed: 08-19-93



for .

ECOLOGY & ENVIRONMENT

Clayton Project No. 90406-17

Sample Matrix: Soil

Lab Number: 161081

Sample Identification: CT-5, FIRST CONTAINER
Analytical Method: EPA 8080 (modified)
Moisture (%): 13

Compound Name	Concentration (µg/kg) *	Limit of Detection (µg/kg)
PCB Aroclor-1016	<80	80
PCB Aroclor-1221	<200	200
PCB Aroclor-1232	<80	80
PCB Aroclor-1242	<80	80
PCB Aroclor-1248	200	80
PCB Aroclor-1254	200	80
PCB Aroclor-1260	100	80

^{*} Results are reported on a dry-weight basis.

Limit of detection varies due to matrix effects.

Date extracted: 08-10-93 Date analyzed: 08-20-93

	Ecology and Environment,	inc.
Size Nove / /a Tor	Field Sample Data Shee	t Cross W
Collectors Dung, Vice	Hars, Langer EPA Site	#
		d & 1393 Temperature 65°F
Sample Tag #	Time OF B	5 0945
TRANSECT INFORMATION	Compace Direction	· · · · · ·
	Compass Direction	
Station #	Distance Between Sta	tions to = ft.
GROUNDVATER	SURFACE VATER	i ATR
Water Table Depth ft.	Color Odor	Media
Sample Depth ft.		Wind Dir.
Color	Stream Data (measure	Barom. Press.
Odor	after sample collection)	Time Ran min
Oil	Width / ft	Avg Flow Rate /1/min
Device	Depth ft or in	
	Velocity #t/sec	
SOIL	Flow Direction	SEDIMENT
Device:	Device:	Color: Odor:
Auger Core Backnoe	Kemmerer Bucket	Bottom: Sand
Split Spoon	Direct /	Gravel Clay
Cylinder Cup	Surface /	Rock Shell
	Bottom	Organic V
Spade Depth 17 6 ft or in		Device:
Soil Type	VASTE	Ponar / \
Rock Silt	ColorOdor\	Eckman /
Gravel Muck	Solid-Sludge-Liquid \	Bucket /
Sand Loam	Device: /	Trowel /
Clay Peat Color (-ruen	Bucket /	
COIOI Grace	Trowel / Core	
	Other/	
SAMPLE PREPARATION =	=======================================	ANALYSIS
	,	
Container/Size: Storage	, , , , ,	
Glass Jar Wet I		latiles Total Metals
Plastic Jar Dry I Acetate Core Ambie	₹2.574 5-1.	se/Neutral Cyanide Lorge Akara
Teflon Cap		sticide activities
Foil Cap	Other PC	
Cleaning Procedure:		T Organics Ignitability
Low-High Concentration	Water Rinse	Corrosivity
Detergent Wash	Acetone Rinse	Reactivity
Hexane Rinse		Other
Other Solvent Rinse-spec	11y	
- (PPW A DVC	
Collected Fran	gren soil at 1	7/1/
recycled paper	Jmen 501/ 91	recology into caynoning in
		seriogy and consequences

recycled paper

	Ecology and Environment, Field Sample Data Sheet	
Site Name Cyb TaoL	County Wayne Lhar Langer EPA Site	State M,
Collectors Damo, Deco	Characterger EPA Site	# Cp Tave
Sample # CT2	Date Collected	1 <u>8/4/93</u> Temperature <u>65</u> °F
	Time <u>\\6</u> .45	
TRANSECT INFORMATION		:======================================
Letter	Compass Direction	<u> </u>
	Distance Between Stat	cions to = ft
GROUNDWATER	SURFACE VATER /	AIR
Water Table Depthft.	ColorOdor/	Media
Sample Depth ft.	Temp pH /	Wind Dir.
Color	Stream Data (measure/	Barom. Press
Odor	after sample collection)	
Oil	Vidthft	Avg Flow Rate
Device	Depth ft/or in	Device /
****************	Velocity /ft/sec	
SOIL	Flow Direction	SEDIMENT /
Device:	Device: \ /	Color: \ /Odor:
Auger/ Track	Kemmerer\ /	Bottom: \ /
Core/ Split Spoon hoe	Bucket \ /	Ooze Sand
Split Spoon	Direct \/	Gravel (Jay
Cylinder Cup	Surface X	Rock Shell
Spade	Bottom	Organic / \
Depth (ft or in		Device: / \
Soil Type	VASTE \	Ponar / \
Rock Silt	ColorOdor	Eckman /
Gravel Muck	Solid-Sludge-Liquid	Bucket/
Sand Loam	Device:	Trowel
(Clay) Peat	Bucket \	
color Brawn	Trowel \	igwedge
	30,70	
SAMPLE PREPARATION =	0#her	= ANALYSIS
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Container/Size: Storage	, , , , , , , , , , , , , , , , , , , ,	ics Inorganics:
Glass Jar Vet 1		atiles Total Metals
Plastic Jar Dry 1)/ 4	se/Neutral Cyanide
Acetate Core Ambie	ent i Naoh Aci	
Teflon Cap		ticide
Foil Cap	Øther PCB	
Cleaning Procedure:		P Organics Ignitability
Low-High Concentration	Water Rinse	Corrosivity
Detergent Wash	Acetone Rinse	Reactivity
Hexane Rinse		Other
Other Solvent Rinse-spec	11y	
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Site Name CVh Toa -	Ecology and Environment Field Sample Data Sh County Val	, Inc. eet P. Stat	ce H,
Site Name Cyb Toa Collectors Dunc, Lange	m, Derno EPA Si	te #	
Sample # CT3	Date Collec	ted 8 14 193 1	Cemperature 20° F
			
Sample Tag #	11me _//_/U	<u> </u>	
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TRANSECT INFORMATION			
Letter	Compass Direction	<u> </u>	
Station #			
GROUNDWATER	SURFACE WATER	AIR	
Water Table Depth / ft.	Color Odor /	Media	
Sample Depth ft.	Temp\ pH /	Wind Dir.	
Color	Stream Data (measure	Barom. Pres	s. /
Odor	after sample collection	n) Time\Ran	min
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Device	Depth ft or	in Device	
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SOIL	Flow Direction /	sko	HENT/
Device! Trackboc	Device: \ /	Color: \	/ Odor:
	Kemmerer \ /	Bottom: \	\
Coré	Bucket \bigvee	0oze	Sand
Sp / it Spoon	Direct 🚶	Gravel	Clay
· ,	Surface/\	_ Rock /	Shell
Spade	Bottom	Organio	
Depth ft or in	, ,		
Soil Type	VASTE \	Ponar	
Rock Silt	Color Odor	Eckman	
Gravel Muck	Solid-Slydge-Liquid	Bucket	
Sand Loam	Device:/	Trowel	
Clay Peat	Bucket		
Color bray Gray	Troyel	1	\ .
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SAMPLE PREPARATION =	0ther	! === A N	MALYSIS
Container/Size: Storage	1/ 9	ganics	Inorganics:
Glass Jar Wet 1		Volatiles)	Total Metals
Plastic Jar Dry 1	7	Base/Neutral	Cyanide
Acetate Core Ambie		Acid	TCLP Metals
Teflon Cap	3 1 /	<u>Pesti</u> cide	
Toil Cap		CB	RCRA:
Cleaning Procedure:		TCLP Organics	Ignitability
Low-High Concentration	Water Rinse		Corrosivity
Detergent Wash	Acetone Rinse		Reactivity
Hexane Rinse	<u>.</u> ;	`	Other
Other Solvent Rinse-spec	ity		

REMARKS

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	Ecology and Environ			•			
Site Name Ch TGC	Field Sample Data \mathcal{L}	Sheet	: <u>P</u> Stat	e <u> </u>			
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Sample #	Date Co.	llected	1 <u>8/4 /94</u> I	$\frac{1}{2}$ emperature $\frac{1}{2}$ F			
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TRANSECT INFORMATION			. =====================================				
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Station #		en Stat	cionst	co = ft.			
GROUNDVATER	SURFACE VATER	<i> </i>	AIR				
Water Table Depth /ft.	Color Odor		Media				
Sample Depthft.	TemppH	/	Wind Dir.				
Color	Stream Data (measu	re	Barom, Pres	s.			
Odor /	Stream Data (measur after sample collec	ction)	Time Ran	min			
Oil /				te / 1/min			
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	Velocity	ft/sec					
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Devicet /	Device: X		Odor:				
Auger\	Kemmerer	Bottom: /					
Core \ /	Bucket	Ooze / Sand					
Split Spoop	Direct	Gravel/ Clay					
Cylinder Cup	Surface	$oxed{Rock/She}$					
Spade \bigvee	Bottom	Organic \					
Depth /\ ft or in		Device:					
Soil Type/ \	WASTE		Ponar				
Rock / \Silt	Color Odor	N/A Eckman					
Graveľ \Huck	Solid-Sludge-Liquid	d Bucket					
Sand/ koam	Device:						
Clay/ Peat	Bucket VII	So untes					
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	Core Other Trackhoe						
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		1					
Container/Size: Storage	e: Preservati∲e	Organ	ics	Inorganics:			
Glass Jar / Wet 1	ce Added:/	(Vol	atiles	Total Metals			
Plastic Jar Dry 1	ice H ₂ SO/	Bas	e/Neutral	Cyanide			
Acetate Core Ambie	ent Náoh	Aci		TCLP Metals			
Teflon Cap	HNO ₂	Pes	ticide				
Foil Cap	Other	← PCE	Ď.	RCRA:			
Cleaning Procedure:		TCI	P Organics	Ignitability			
Low-High Concentration	Water Rinse			Corrosivity			
Detergent Wash	Acetone Rinse	ł		Reactivity			
Hexane Rinse				Other			
Other Solvent Rinse-spec	ify	ļ	<i>را</i> ر				
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Sample # CTS			1 & 1 L/ T	omporaturo 24-0F
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Sample Tag #	Time	130	<u>) </u>	· ·
TRANSECT INFORMATION	Company Dimensi			
Letter	compass birecti	.011		
Station #	•		•	
GROUNDWATER	SURFACE VATER	/ /	AIR	
Water Table Depthft.	Color Odor	/	Media	
Sample Depthft.	Temp pH /		\ Wind Dir	
Color	Stream Data (measur	P	Barom, Press	. /
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Device	Depthft	or in	Devi/ce	
	Velocityf	t/sec	_ ============	
SOIL	Flow Direction		SEDI	
Device:	Device:		Color:	udor:
Auger Core	Kemmerér Bucket		Bottom:	land
Split Spoon	Direct	\		Clay
Cylinder Cup	Surface		/ \	Shell
	Bottom	-	Organic \	-
Spadeft or in	=======================================		Device:	
Soil Type	VASTE	ł	Fonar	\
Rock / Silt \	Color Grac Odor	1/4	/Eckman	
Grave Muck	Solid-Sludge-Liquid		/ Bucket	
Sand / Loam \	Device:	1.	/ Trowel	
Clay/ Peat	Bucket DID-	2 WHS	/	
Coldr	Device: Bucket Trowel Core	1		
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SAMPLE PREPARATION =	Other Trackive		. ANA	LLYSIS
	. 1	•		
Container/Size: Storage	. / 1	Organ		Inorganics
Glass Jar Wet I		,	atiles	Total Metals
Plastic Jar Dry I		•	se/Neutral/	Cyanide
Acetate Core Ambie	- (Aci		TCLP Metals
Foil Cap	HNO3	PCE	ticide B	DCD A .
Cleaning Procedure:	Other			RCRA: Ignitability
Low-High Concentration	Water Rinse	101	P Organics	Corrosivity
Detergent Wash	Acetone Rinse			Reactivity
Hexane Rinse			•	Other
Other Solvent Rinse-spec	ify			a ()
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ENVIRONMENTAL PROTECTION AGENCY Office of Enforcement

CHAIN OF CUSTODY RECORD \

REGION 5
230 South Dearborn Street
Chicago, Illinois 60604

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Distribution: White — Accompanies Shipment; Pink — Coordinator Field Files; Yellow — Laboratory File								\exists	Herb Langer Ecology + Envenment 12251 Universal Taylor, MI 48180												